
Sequence Listing was accepted.

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Reviewer: markspencer

Timestamp: [year=2009; month=8; day=6; hr=13; min=0; sec=30; ms=824;]

Validated By CRFValidator v 1.0.3

Application No: 09996069 Version No: 2.0

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Started: 2009-07-20 19:39:56.918 **Finished:** 2009-07-20 19:39:59.785

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Actual SeqID Count: 12

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      Bamdad, Cynthia
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Asp Val Thr Ser Val Pro Val Thr Arg Pro Ala Leu Gly Ser Thr Thr 100 105 110

Pro Pro Ala His Asp Val Thr Ser Ala Pro Asp Asn Lys Pro Ala Pro 115 120 125

Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr 130 135 140

Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His 165 170 175

Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala 180 185 190

Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro 195 200 205

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Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser 225 230 235 240

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Pro	Pro	Ala 515	His	Gly	Val	Thr	Ser 520	Ala	Pro	Asp	Thr	Arg 525	Pro	Ala	Pro
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785					790					795				Thr	800
				805					810					Ala 815	
			820					825					830	Thr	
		835					840					845		Ala	
-	850					855		_			860			Asp	
865					870					875					880
				885					890					Ala 895	
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915 920 925

Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Asn 930 935 940

Arg Pro Ala Leu Gly Ser Thr Ala Pro Pro Val His Asn Val Thr Ser 945 950 955 960

Ala Ser Gly Ser Ala Ser Gly Ser Ala Ser Thr Leu Val His Asn Gly 965 970 975

Thr Ser Ala Arg Ala Thr Thr Thr Pro Ala Ser Lys Ser Thr Pro Phe 980 985 990

Ser Ile Pro Ser His His Ser Asp Thr Pro Thr Thr Leu Ala Ser His 995 1000 1005

Ser Thr Lys Thr Asp Ala Ser Ser Thr His His Ser Ser Val Pro 1010 1015 1020

Pro Leu Thr Ser Ser Asn His Ser Thr Ser Pro Gln Leu Ser Thr 1025 1030 1035

Gly Val Ser Phe Phe Phe Leu Ser Phe His Ile Ser Asn Leu Gln 1040 1045 1050

Phe Asn Ser Ser Leu Glu Asp Pro Ser Thr Asp Tyr Tyr Gln Glu 1055 1060 1065

Leu Gln Arg Asp Ile Ser Glu Met Phe Leu Gln Ile Tyr Lys Gln 1070 1075 1080

Gly Gly Phe Leu Gly Leu Ser Asn Ile Lys Phe Arg Pro Gly Ser 1085 1090 1095

Val Val Val Gln Leu Thr Leu Ala Phe Arg Glu Gly Thr Ile Asn 1100 1105 1110

Val His Asp Val Glu Thr Gln Phe Asn Gln Tyr Lys Thr Glu Ala 1115 1120 1125

Ala Ser Arg Tyr Asn Leu Thr Ile Ser Asp Val Ser Val Ser Asp 1130 1135 1140 Val Pro Phe Pro Phe Ser Ala Gln Ser Gly Ala Gly Val Pro Gly 1145 1150 1155 Trp Gly Ile Ala Leu Leu Val Leu Val Cys Val Leu Val Ala Leu 1165 1160 1170 Ala Ile Val Tyr Leu Ile Ala Leu Ala Val Cys Gln Cys Arg Arg 1175 1180 1185 Lys Asn Tyr Gly Gln Leu Asp Ile Phe Pro Ala Arg Asp Thr Tyr 1200 1195 1190 His Pro Met Ser Glu Tyr Pro Thr Tyr His Thr His Gly Arg Tyr 1205 1210 Val Pro Pro Ser Ser Thr Asp Arg Ser Pro Tyr Glu Lys Val Ser 1220 1225 1230 Ala Gly Asn Gly Gly Ser Ser Leu Ser Tyr Thr Asn Pro Ala Val 1235 1240 1245 Ala Ala Ser Ala Asn Leu 1250 1255 <210> 11 <211> 302 <212> PRT <213> Artificial Sequence <220> <223> Proopiomelanocortin (adrenocorticotropin/beta-lipotropin/alpha-mela- nocyte stimulating hormone/beta-melanocyte stimulating hormone/beta-endorphin) [Homo sapiens]. Accession number: <400> 11 Ala Ala Ala Lys Glu Gly Lys Lys Ser Arg Asp Arg Glu Arg Pro Pro 5 10

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Glu Ser Ser Gln Cys Gln Asp Leu Thr Thr Glu Ser Asn Leu Leu Glu 65 70 75 80

Cys Ile Arg Ala Cys Lys Pro Asp Leu Ser Ala Glu Thr Pro Met Phe 85 90 95

Pro Gly Asn Gly Asp Glu Gln Pro Leu Thr Glu Asn Pro Arg Lys Tyr 100 105 110

Val Met Gly His Phe Arg Trp Asp Arg Phe Gly Arg Arg Asn Ser Ser 115 120 125

Ser Ser Gly Ser Ser Gly Ala Gly Gln Lys Arg Glu Asp Val Ser Ala 130 135 140

Asp Gly Ala Lys Pro Gly Pro Arg Glu Gly Lys Arg Ser Tyr Ser Met 165 170 175

Glu His Phe Arg Trp Gly Lys Pro Val Gly Lys Lys Arg Arg Pro Val 180 185 190

Lys Val Tyr Pro Asn Gly Ala Glu Asp Glu Ser Ala Glu Ala Phe Pro 195 200 205

Leu Glu Phe Ly